What is claimed is:

 An isolated nucleic acid molecule comprising the nucleic acid sequence of SEQ ID NO:1.

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- 2. The isolated nucleic acid molecule of claim 1, wherein the nucleic acid encodes the polypeptide of SEQ ID NO:2.
- 3. The isolated nucleic acid molecule of claim 1, further comprising a detectable label.

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- 4. The isolated nucleic acid molecule of claim 3, wherein the detectable label comprises an enzyme, a radioactive isotope, or a chemical which fluoresces.
- The isolated nucleic acid molecule of claim 1, wherein the nucleic acid sequence is
 selected from the group consisting of RNA, synthetic RNA, genomic DNA, synthetic DNA and cDNA.
 - 6. An isolated nucleic acid molecule comprising a nucleic acid sequence that hybridizes to the nucleic acid sequence of SEQ ID NO:1.

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- 7. The isolated nucleic acid molecule of claim 6, where the nucleic acid sequence hybridizes under stringent conditions.
- 8. The isolated nucleic acid molecule of claim 7, wherein the hybridization occurs in 6X SSC at about 45° C, followed by at least one wash in 0.2X SSC, 0.1% SDS at about 50-65°C.
 - 9. An isolated nucleic acid molecule comprising a nucleic acid that encodes a polypeptide having the amino acid sequence of SEQ ID NO:2.

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10. The nucleic acid molecule of claim 9, where, as a result of the degeneracy of the genetic code, the nucleic acid differs from the nucleic acid of SEQ ID NO:1.

- 11. An isolated nucleic acid molecule comprising a nucleic acid that is at least 65% identical to the nucleic acid of SEQ ID NO:1.
- 5 12. The isolated nucleic acid molecule of claim 12, wherein the nucleic acid acid is at least 75% identical to the nucleic acid of SEQ ID NO:1.
 - 13. The isolated nucleic acid molecule of claim 12, wherein the nucleic acid acid is at least 85% identical to the nucleic acid of SEQ ID NO:1.
 - 14. The isolated nucleic acid molecule of claim 12, wherein the nucleic acid acid is at least 95% identical to the nucleic acid of SEQ ID NO:1.
 - 15.A recombinant polypeptide comprising the amino acid sequence of SEQ ID NO:2.
 - 16. The recombinant polypeptide of claim 15 further comprising a detectable label.
 - 17. The recombinant polypeptide of claim 16, wherein the detectable label comprises an enzyme, a radio active isotope, or a chemical which fluoresces.
 - 18. A recombinant polypeptide comprising an amino acid sequence that is at least 65% identical to the sequence of SEQ ID NO:2 and which retains the function of the polypeptide of SEQ ID NO:2.
- 25 19. The recombinant polypeptide of claim 18, wherein the amino acid sequence is at least 75% identicial to the sequence of SEQ ID NO:2.
 - 20. The recombinant polypeptide of claim 18, wherein the amino acid sequence is at least 85% identicial to the sequence of SEQ ID NO:2.

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- 21. The recombinant polypeptide of claim 18, wherein the amino acid sequence is at least 95% identicial to the sequence of SEQ ID NO:2.
- 22. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes
 the recombinant polypeptide of claim 18.
 - 23. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes the recombinant polypeptide of claim 19.
- 10 24. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes the recombinant polypeptide of claim 20.
 - 25. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes the recombinant polypeptide of claim 21.
 - 26. An antibody specific for the reocombinant polypeptide of claim 15.

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- 27. The antibody of claim 26, wherein the antibody is selected from the group consisting of a monoclonal antibody, a polyclonal antibody, and a chimeric antibody.
- 28. The antibody of claim 26, further comprising a detectable label.
- 29. The antibody of claim 28, wherein a detectable label comprises an enzyme, a radioactive isotope, a chemical which fluoresces, or an antigenic peptide tag recognizable by antibodies.
- 30. An expression vector, the expression vector comprising the isolated nucleic acid molecule of claim 1 operatively associated with an expression control element.

- 31. The expression vector of claim 30, wherein the expression control element is selected from the group consisting of a constitutive regulatory sequence, a cell-specific regulatory sequence, and an inducible regulatory sequence.
- 32. The expression vector of claim 30, wherein the expression control element is a promoter comprising an immediate early promoter of hCMV, an early promoter of SV40, an early promoter of adenovirus, an early promoter of vaccinia, an early promoter of polyoma, a late promoter of SV40, a late promoter of adenovirus, a late promoter of vaccinia, a late promoter of polyoma, a *lac* system, a *trp* system, a *TAC* system, a *TRC* system, a major operator and promoter region of phage lambda, a control region of fd coat protein, 3-phosphoglycerate kinase promoter, acid phosphatase promoter, or a promoter of yeast α mating factor.
 - 33. A host cell transfected with the expression vector of claim 30.

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- 34. The host cell of claim 33, wherein the host cell comprises a prokaryotic cell or eukaryotic cell.
- 35. The host cell of claim 34, wherein the host cell comprises *E. coli*, Pseudonomas,
 Bacillus, Strepomyces, yeast, CHO, R1.1, B-W, L-M, COS1, COS7, BSC1, BSC40,
 BMT10 or Sf9 cells.
 - 36. An expression vector, the expression vector comprising the isolated nucleic acid molecule of claim 6 operatively associated with an expression control element.
 - 37. A host cell transfected with the expression vector of claim 36.
 - 38. An expression vector, the expression vector comprising the isolated nucleic acid molecule of claim 11 operatively associated with an expression control element.
 - 39. A host cell transfected with the expression vector of claim 38.

- 40. An isolated nucleic acid molecule comprising antisense RNA complementary to a nucleic acid selected from the group consisting of
 - a) the nucleic acid of SEQ ID NO:1;
 - b) a nucleic acid that encodes the amino acid of SEQ ID NO:2.
- 41.A transgenic non-human animal, the animal having a genome comprising a transgene which comprises isolated nucleic acid of SEQ ID NO:1.
- 10 42.A method for producing the recombinant polypeptide of claim 15, the method comprising the steps of:
 - a) culturing a host cell of claim 19 under conditions that provide for expression of the recombinant polypeptide; and
 - b) recovering the recombinant polypeptide.

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- 43. A method of detecting a protein, the method comprising the steps of
 - a) contacting the protein with an antibody according to claim 26; and
 - b) assessing the interaction between the antibody and the protein.
- 20 44. A method for identifying an agonist of SEQ ID NO:2, the method comprising the steps of:
 - a) contacting a potential agonist with a cell expressing SEQ ID NO:2; and
 - b) determining whether in the presence of the potential agonist the signaling activity of SEQ ID NO:2 is increased relative to the activity of SEQ ID NO:2 in the absence of the potential agonist.

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- 45. A method for identifying an inverse agonist of SEQ ID NO:2, the method comprising the steps of:
 - a) contacting a potential inverse agonist with a cell expressing SEQ ID NO:2; and
 - b) determining whether in the presence of the potential inverse agonist the activity of SEQ ID NO:2 is decreased relative to the activity of SEQ ID NO:2 in

the absence of the potential inverse agonist, and is decreased in the presence of an endogenous ligand or agonist.

- 46. A method for identifying an antagonist of SEQ ID NO:2, the method comprising the steps of
 - a) contacting a potential antagonist with a cell expressing SEQ ID NO:2; and
 - b) determining whether in the presence of the potential antagonist the signaling activity of SEQ ID NO:2 is decreased relative to the activity of SEQ ID NO:2 in the presence of an endogenous ligand or agonist.